CN8-F-K

Grade: Standard

Strong acid cation resin, styrene/DVB 8% crosslinked gel, fine mesh, potassium form

ResinTech CN8-F-K is a black 8% crosslinked gel strong acid fine mesh cation resin in the potassium form. It has a capacity and other characteristics similar to other products in the CN8 family. CN8-F-K can be used interchangeably with sodium form CN8-F. It is intended for use in water softening and other neutral salt cation exchange applications where the release of sodium ions is undesirable.

FEATURES & BENEFITS

- Potassium form
- Low color throw
- Superior physical stability
- Complies with US FDA regulations
- Made in the USA

APPLICATIONS

- Iron Removal
- Sodium Removal
- Softening

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Potassium (K)
Functional Group	Sulfonic Acid
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	30-50 US mesh (297-595µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Reversible Swelling	3 to 5% (K → Na)
Capacity (meq/mL)	2.00
Moisture Retention (%)	35 to 45
Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
Color	Dark Brown to Black
Regenerable	Regenerable

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	280°F (138°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 to 50
Operating pH Range	0 to 14
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

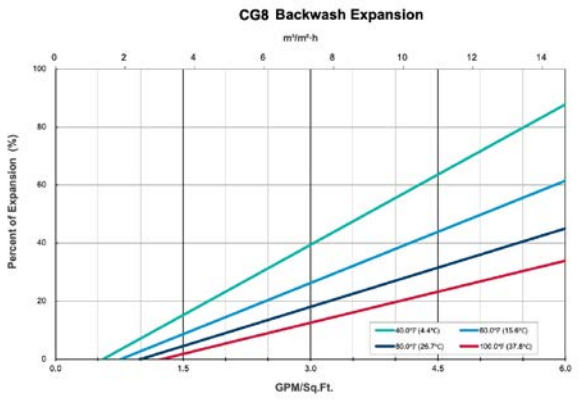
RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

REGENERATION DETAILS

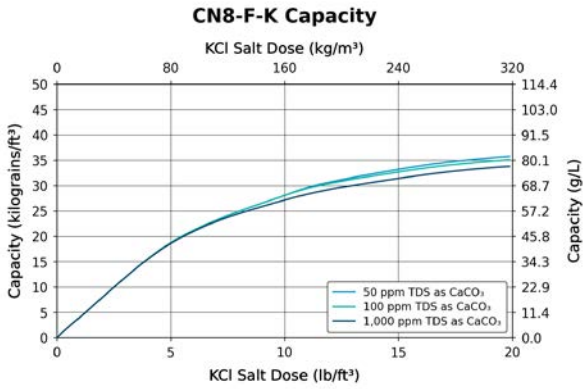
Salt Cycle (NaCl)	10 to 15% KCl	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 20 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CN8-F-K as a function of flow rate at various temperatures.

CAPACITY



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

POTASSIUM FORM SOFTENING

ResinTech **CN8-F-K** is supplied in the potassium rather than the sodium form. Potassium form resins are regenerated with potassium chloride rather than sodium chloride. **CN8-F-K** produces softened water with reduced sodium content. Except for the use of a different salt, the capacity and other operating characteristics are virtually identical to sodium form softening.

SODIUM REMOVAL

Potassium form resins such as ResinTech **CN8-F-K** have substantial capacity to remove sodium as well as hardness. The resin prefers hardness over sodium so it is possible to dump sodium if the resin is operated past sodium breakthrough.

CERTIFICATIONS

REACH Registered

PACKAGING

Standard

42 cu.ft. Supersack | 7 cu.ft. Drum
200L Drum | 1000L Supersack

Metric

5 cu.ft. Drum | 7 cu.ft. Drum
140L Drum | 200L Drum

Shipping Weight

49 - 51 lbs/cu.ft. (785 - 817 g/L)

Minimum Order Volume: 210 (cu.ft.)

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MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

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